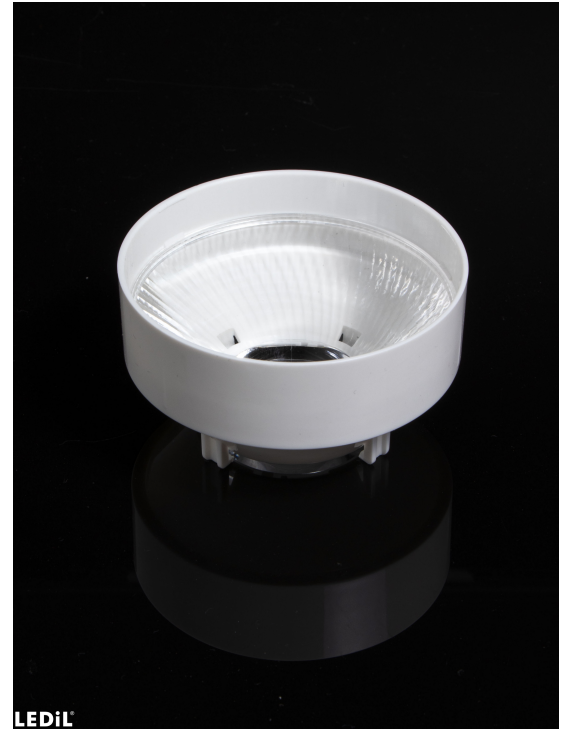


## CARMEN-SS-C-WHT

~12° smooth spot beam. Assembly with holder C compatible with LEDiL HEKLA. White version.

### SPECIFICATION:

Dimensions	Ø 69.5 mm
Height	41.5 mm
Fastening	socket
ROHS compliant	yes ⓘ

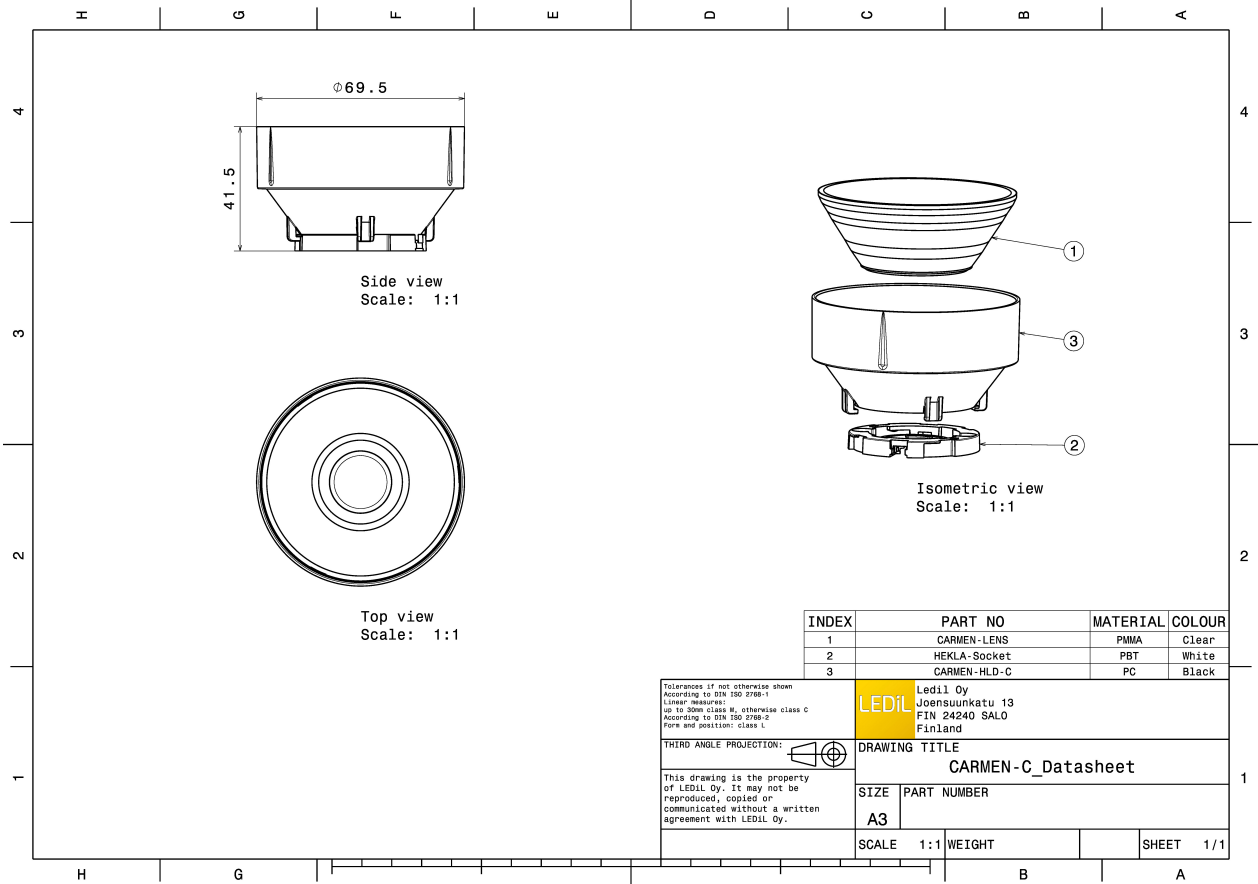


### MATERIALS:

Component	Type	Material	Colour	Finish	Length
CARMEN-SS	Single lens	PMMA	clear		66.4
CARMEN-HLD-C-WHT	Holder	PC	white		69.5

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CP16941_CARMEN-SS-C-WHT » Box size: 480 x 280 x 300 mm	150	150	15	8.8

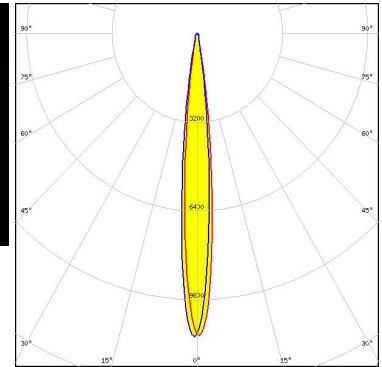


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):



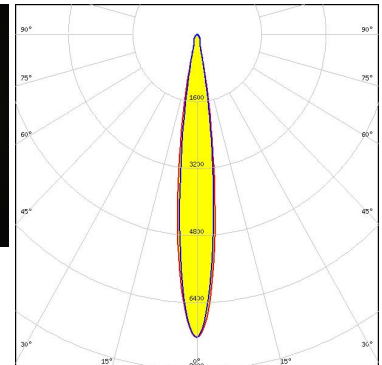
**LED** Vesta TW 6mm DP  
**FWHM / FWTM** 11.0° / 21.0°  
**Efficiency** 82 %  
**Peak intensity** 11 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 504 Typ L8



Light distribution files



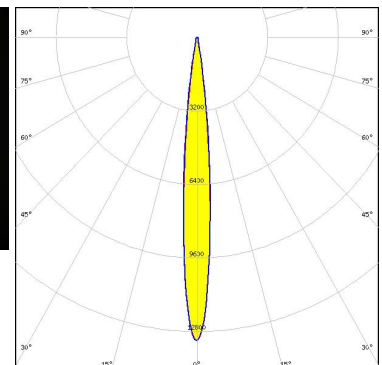
**LED** Vesta TW 9mm (9W) DP  
**FWHM / FWTM** 14.0° / 25.0°  
**Efficiency** 83 %  
**Peak intensity** 7.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 489 Typ L8



Light distribution files

## CITIZEN

**LED** CLU700/701/702/703  
**FWHM / FWTM** 10.0° / 20.0°  
**Efficiency** 85 %  
**Peak intensity** 13.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F15255\_HEKLA-SOCKET-C

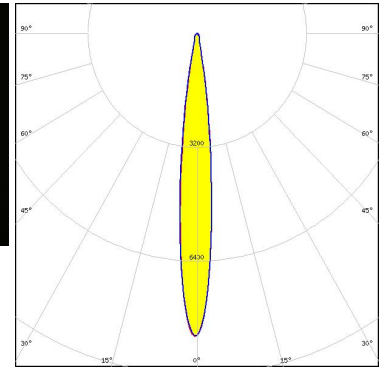


Light distribution files

#### OPTICAL RESULTS (MEASURED):

### CITIZEN

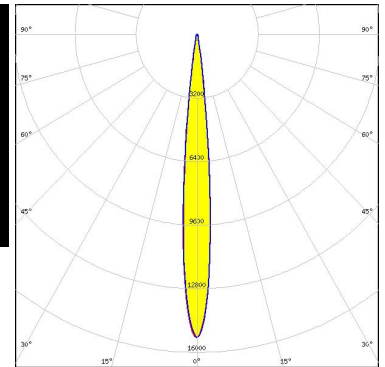
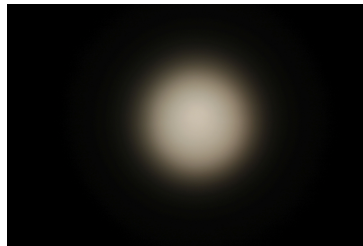
LED CLU710/711  
 FWHM / FWTM 12.0° / 24.0°  
 Efficiency 82 %  
 Peak intensity 8.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



Light distribution files

### CITIZEN

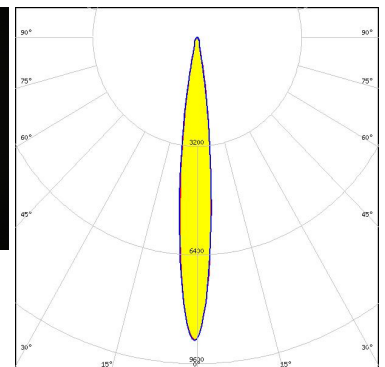
LED CLU7B2  
 FWHM / FWTM 10.0° / 18.0°  
 Efficiency 86 %  
 Peak intensity 15.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



Light distribution files



LED CXA/B 15xx  
 FWHM / FWTM 12.0° / 24.0°  
 Efficiency 84 %  
 Peak intensity 9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15256\_HEKLA-SOCKET-D

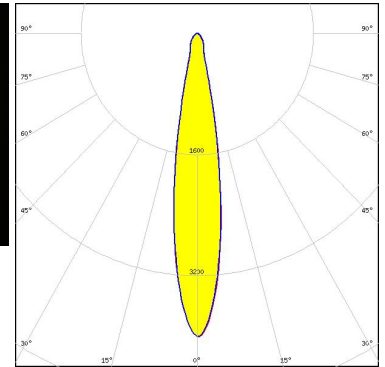


Light distribution files

#### OPTICAL RESULTS (MEASURED):



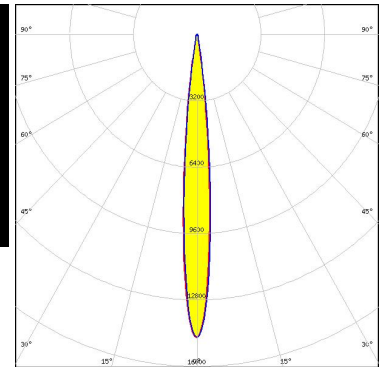
LED LUXEON CX Plus CoB L08 (Gen2)  
FWHM / FWTM 18.0° / 34.0°  
Efficiency 84 %  
Peak intensity 4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
Bender Wirth: 637a Hekla



Light distribution files



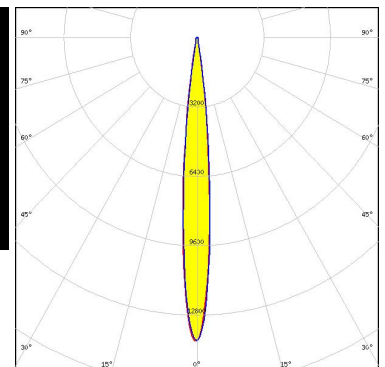
LED LUXEON CX Plus CoB - HD S01H4  
FWHM / FWTM 11.0° / 19.0°  
Efficiency 86 %  
Peak intensity 14.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
Bender Wirth: 634c Hekla



Light distribution files



LED LUXEON CX Plus CoB - HD S02H6  
FWHM / FWTM 11.0° / 20.0°  
Efficiency 86 %  
Peak intensity 14 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
Bender Wirth: 634c Hekla

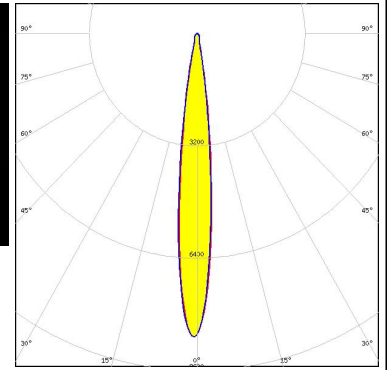


Light distribution files

#### OPTICAL RESULTS (MEASURED):



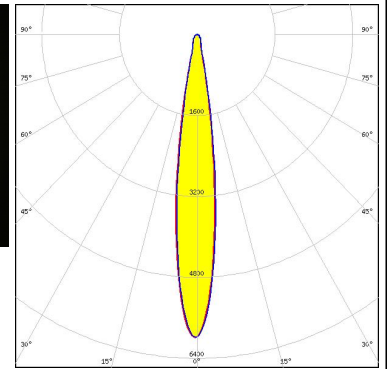
**LED** LUXEON CX Plus CoB - HD S04H9  
**FWHM / FWTM** 12.0° / 24.0°  
**Efficiency** 85 %  
**Peak intensity** 8.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 Bender Wirth: 634c Hekla



Light distribution files



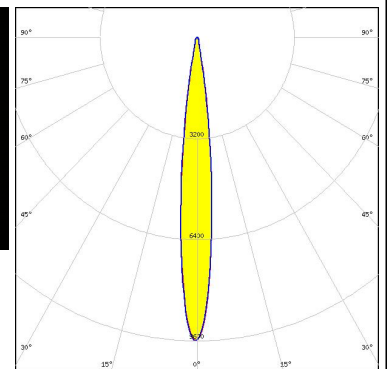
**LED** LUXEON CX Plus CoB L04 / L05 (Gen2)  
**FWHM / FWTM** 15.0° / 28.0°  
**Efficiency** 84 %  
**Peak intensity** 6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 Bender Wirth: 637a Hekla



Light distribution files



**LED** LUXEON CX Plus CoB M02 / M03 (Gen2)  
**FWHM / FWTM** 12.0° / 23.0°  
**Efficiency** 85 %  
**Peak intensity** 9.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 Bender Wirth: 641a Hekla

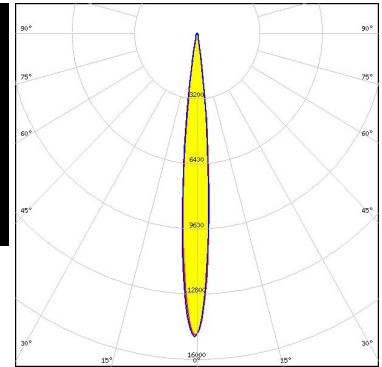
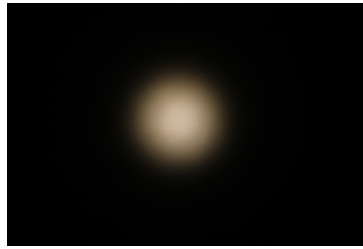


Light distribution files

#### OPTICAL RESULTS (MEASURED):



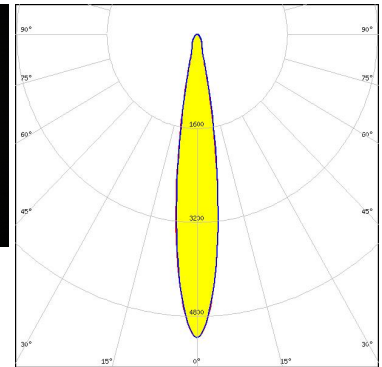
LED LUXEON CX Plus CoB S01 (Gen2)  
 FWHM / FWTM 10.0° / 19.0°  
 Efficiency 86 %  
 Peak intensity 14.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 634c Hekla



Light distribution files



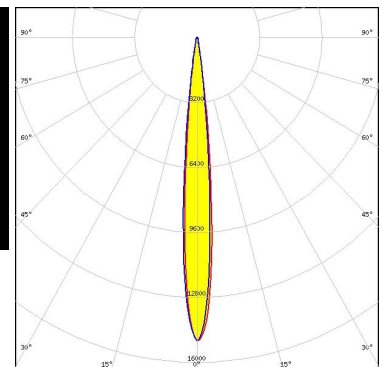
LED CxM-11 (19x19)  
 FWHM / FWTM 16.0° / 30.0°  
 Efficiency 83 %  
 Peak intensity 5.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



Light distribution files



LED CXM-3  
 FWHM / FWTM 10.0° / 19.0°  
 Efficiency 88 %  
 Peak intensity 14.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C

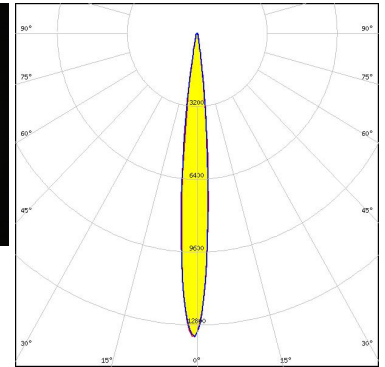


Light distribution files

#### OPTICAL RESULTS (MEASURED):



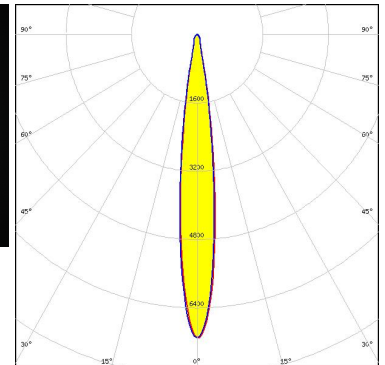
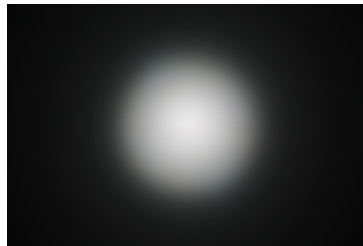
LED CXM-4  
FWHM / FWTM 11.0° / 20.0°  
Efficiency 85 %  
Peak intensity 13.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C



Light distribution files



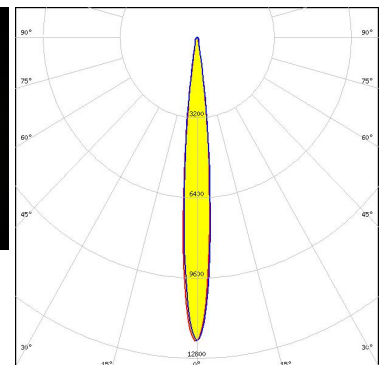
LED LC010T (Tunable White)  
FWHM / FWTM 13.0° / 26.0°  
Efficiency 82 %  
Peak intensity 7.1 cd/lm  
LEDs/each optic 1  
Light colour/type Tunable White  
Required components:  
C16142\_HEKLA-SOCKET-K  
Bender Wirth: 501 Typ L8



Light distribution files



LED XOB 6 mm  
FWHM / FWTM 10.0° / 20.0°  
Efficiency 83 %  
Peak intensity 12.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C



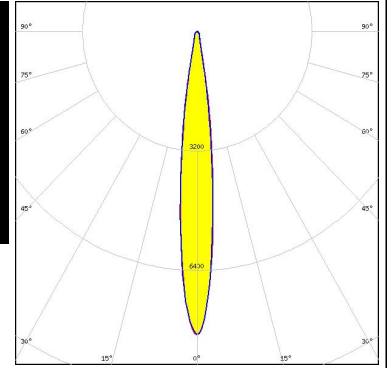
Light distribution files



#### OPTICAL RESULTS (MEASURED):

### XICATO

LED XOB 9.8 mm  
FWHM / FWTM 13.0° / 25.0°  
Efficiency 84 %  
Peak intensity 8.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C

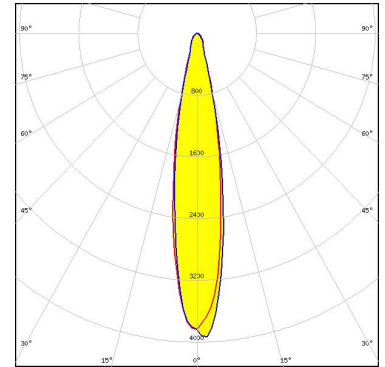


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



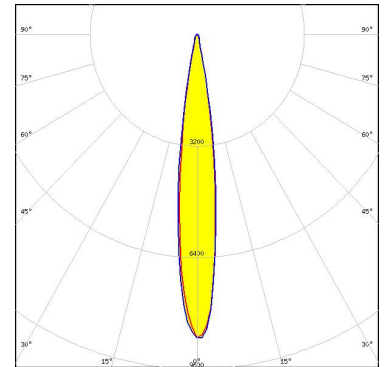
LED CMU15xx  
FWHM / FWTM 20.0° / 38.0°  
Efficiency 82 %  
Peak intensity 3.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



Light distribution files



LED SLE G7 LES09  
FWHM / FWTM 14.0° / 26.0°  
Efficiency 87 %  
Peak intensity 8.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C



Light distribution files

#### GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

#### MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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